

# MATERIAL SAFETY DATA SHEET



## PCT International Pty Ltd

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# D-SECT EC

## INSECTICIDE

Classified as hazardous according to criteria of NOHSC

### 1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

**Product Name:** CroPro D-SECT EC insecticide  
**Product Code:** none  
**Product Use:** Agricultural insecticide for use as per the label directions  
**Poison Schedule:** S6  
**Supplier:** PCT International Pty Ltd  
**ABN:** 44 101 170 923  
**Street Address:** Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110  
**Telephone:** + 61 7 3711 7022  
**Facsimile:** + 61 7 3711 7055

**Emergency telephone No: 1800 630 877**

**Other Information:** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

**MSDS Creation Date:** 23<sup>rd</sup> September 2012

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Formulation Type:** Liquid Emulsifiable Concentrate

Ingredients	CAS No	Concentration
Deltamethrin	32918-63-5	27.5 g/L
Hydrocarbon Solvent	64742-94-5	811 g/L
Butlyated hydroxyl toluene	128-37-0	<10g/L
Other ingredients not considered to be hazardous		to 100%

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## 3. HAZARDS IDENTIFICATION

**Emergency Overview** Hazardous substance ; Non-dangerous goods ; Harmful to aquatic organisms.

### Physical Appearance

**Form:** Liquid  
**Colour:** Light Yellow  
**Odour:** Aromatic solvent odour  
**Water Solubility:** Emulsifies  
**pH:** 4.5 – 7.0

### Potential Health Effects

**Eyes:** Very irritating to the eyes  
**Skin:** May cause slight irritation and drying of the skin.  
**Ingestion:** Harmful if swallowed.  
**Inhalation:** Inhalation may produce respiratory irritation, and can result in headaches, dizziness, drowsiness and nausea, accompanied by narcosis, reduced alertness, loss of reflexes and co-ordination, and vertigo.

### Primary Routes of

**Entry:** Eyes, Skin, Inhalation, Ingestion  
**Target Organs:** Eyes, Skin, Respiratory Tract, Digestive System  
**Carcinogenicity:** Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen

## 4. FIRST AID MEASURES

**Eyes:** Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.  
**Skin:** Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.  
**Ingestion:** Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.  
**Inhalation:** Remove affected person from site of exposure to fresh air until recovered. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms persist.  
**First Aid Facilities:** If poisoning occurs, contact a doctor or Poisons Information Centre on **13 11 26** (Australia).  
**General Advice:** Remove soiled or soaked / contaminated clothing immediately.

### Information for doctor:

There is no specific antidote. Treat symptomatically. This product contains a hydrocarbon solvent. Small amounts of liquid aspirated into the respiratory system during ingestion may cause bronchopneumonia or pulmonary edema. In cases of skin contact, it has been reported that topical application of Vitamin E cream has a therapeutic value, eliminating almost 100% of the skin pain associated with synthetic pyrethroids. For eyes, apply local anaesthetic drops, e.g. 1% Amethocaine Hydrochloride. Give analgesics as necessary.

## 5. FIRE-FIGHTING MEASURES

**Flash Point:** 65°C - 69°C.  
**Autoignition Temperature:** >400°C.  
**Upper Explosion Limits:** 7.0% in air.  
**Lower Explosion Limits:** 0.6% in air.  
**Suitable Extinguishing Media:** Foam, carbon dioxide, dry powder, water spray. Do not use a water jet from a fire hose.  
**By-products in case of Fire:** Likely to create toxic & irritating fumes, with Carbon Dioxide, Nitrogen Oxide, Bromine compounds.  
**Further Information:** Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect

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contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.

## Special Protective

**Equipment for Firefighters:** As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500<sup>mm</sup> of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

## 7. HANDLING AND STORAGE

### Advice on safe

**Handling:** Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use.

### Advice on protection against fire and explosion:

Use product and diluted mix only in a well ventilated area. Do not use around sources of ignition.

**Storage information:** Keep product in the original container, tightly closed, in a cool, well ventilated and secure area, away from all ignition sources. Do not store for prolonged periods in direct sunlight.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### General protective Measures:

Avoid contact with eyes and skin  
Do not inhale mists.

### Hygiene Measures:

No smoking, eating or drinking allowed when using this product.  
Wash hands before breaks and at end of work shift.  
Protective ointment is recommended.

### Respiratory Protection:

In case of formation of mists or vapours, an organic vapour cartridge respirator should be used.

### Hand Protection:

Elbow length PVC gloves should be worn when using this product.

### Eye Protection:

Safety goggles and/or face shield is recommended when using this product.

### Protective clothing;

Cotton overalls buttoned to the neck and wrist, and a washable hat, are required when using this product.

**Engineering Controls:** Use in a well ventilated area only. Good general (mechanical) ventilation should be sufficient to control airborne mist levels.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Pale yellow liquid
<b>Odour:</b>	Aromatic solvent odour.
<b>Solubility in Water:</b>	Emulsifies with water.
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	approx. 0.91 @ 20°C
<b>pH Value:</b>	4.5 – 7.0
<b>Vapour Pressure:</b>	0.3 kPa @ 38°C
<b>Melting Temperature:</b>	not measured
<b>Boiling temperature:</b>	179°C - 213°C
<b>Viscosity, dynamic:</b>	not measured

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	None with proper storage and handling, other than extreme heat.
<b>Thermal</b>	
<b>Decomposition:</b>	Not measured.
<b>Hazardous reactions:</b>	No hazardous reactions with proper storage and handling
<b>Hazardous</b>	
<b>Polymerization:</b>	Unlikely to occur.
<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous decomposition products:</b>	None with proper storage and handling.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity - Oral:</b>	LD <sub>50</sub> (rat) 535 mg/kg.
<b>Acute Toxicity - Inhalation:</b>	LC <sub>50</sub> (rat) >11.3mg/L exposure time 6h method
<b>Acute Toxicity - Dermal:</b>	LD <sub>50</sub> (rat) >2000mg/kg
<b>Eye Irritation:</b>	(Species - rabbit) slight irritant
<b>Skin Irritation:</b>	(Species - rabbit) slight irritant
<b>Skin Sensitisation:</b>	(Species - guinea pig) non-sensitising
<b>Note:</b>	harmful by inhalation and in contact with skin Irritant to skin Risk of serious damage to eyes The toxicological data refer to the undiluted 100% product.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity Effects:</b>	
<b>Acute Toxicity – Fish:</b>	LC <sub>50</sub> for rainbow trout is 0.91 µg/L.
<b>Acute Toxicity - Fish:</b>	LC <sub>50</sub> for Bluegill is 1.4 µg/L.
<b>Acute Toxicity – Algae:</b>	EC <sub>50</sub> for green algae is >9.1 mg/L
<b>Acute Toxicity – Birds:</b>	LD <sub>50</sub> for Mallard Duck is >4,640 mg/Kg
<b>Further ecological information:</b>	
<b>Ecological notes:</b>	Deltamethrin has low mobility in soil. It degrades rapidly in soil and water. It has a half-life in soil of less than 14 days. The ecotoxicological data refer to the undiluted 100% product.

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## 13. DISPOSAL CONSIDERATIONS

**ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

**Product Disposal:** In accordance with local authority regulations, take to special waste incineration plant.

**Container Disposal:** Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500<sup>mm</sup> deep in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

**By sea, the following apply:**

**U.N. Number:** 3082

**Hazchem Code:** 3Z

**Class & Subsidiary Risk:** 9

**Packing Group:** III



**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.  
(contains Deltamethrin) Marine Pollutant

**Storage and Transport:** Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail, and the above does not apply.

## 15. REGULATORY INFORMATION

**APVMA Approval No:** 50684/1098

**Risk Phrases:** R65 Harmful- may cause lung damage if swallowed.

R38 Irritating to skin

R41 Risk of serious damage to eyes.

**Safety Phrases:** S24/25 Avoid Contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

**Poisons Schedule:** S6

**Packaging &**

**Labeling:**

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category**

**AICS (Australia):** Listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Contact Person/Point:** Mr David Pearson Phone: (07) 3711 7022

**This MSDS contains only safety-related information. For other data, see product literature.**

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...End of MSDS...